

General

Title

Chronic obstructive pulmonary disease (COPD): proportion of outpatients with a Medical Research Council (MRC) level of 2 or more who receive long-acting bronchodilator inhaled therapy – either long-acting muscarinic antagonist (LAMA) or long-acting beta2 agonist (LABA).

Source(s)

Indicators in the Danish registry for chronic obstructive pulmonary disease (DrCOPD). Aarhus (DK): Competence Centre for Clinical Quality and Health Informatics West; 2013 Jan 2. 7 p.

Measure Domain

Primary Measure Domain

Clinical Quality Measures: Process

Secondary Measure Domain

Does not apply to this measure

Brief Abstract

Description

This measure is used to assess the proportion of outpatients with a Medical Research Council (MRC) level of 2 or more who receive long-acting bronchodilator inhaled therapy – either long-acting muscarinic antagonist (LAMA) or long-acting beta2 agonist (LABA).

Rationale

Medical treatment is an important part of the treatment of stable chronic obstructive pulmonary disease (COPD). The intensity of the treatment depends on the lung function, the severity of the shortness of breath and the frequency of any exacerbations. Inhalation of long-acting bronchodilators (long-acting muscarinic antagonist [LAMA] or long-acting beta2 agonist [LABA]) has a positive effect on lung function, shortness of breath, functional level and may reduce the tendency for exacerbations.

Evidence for Rationale

Indicators in the Danish registry for chronic obstructive pulmonary disease (DrCOPD). Aarhus (DK): Competence Centre for Clinical Quality and Health Informatics West; 2013 Jan 2. 7 p.

Primary Health Components

Chronic obstructive pulmonary disease (COPD); Medical Research Council (MRC) level; long-acting bronchodilator inhaled therapy; long-acting muscarinic antagonist (LAMA); long-acting beta2 agonist (LABA)

Denominator Description

Patients age 30 years and older who were seen at hospital outpatient clinics with the following primary diagnoses for chronic obstructive pulmonary disease (COPD) according to the Danish version of the International Classification of Diseases, Tenth Revision (ICD-10):

J44.X

OR

J96.X in combination with J44.X as a secondary diagnosis

AND

At least one procedure code ZZ0150CD and an attached value code VPH0002, VPH0003, VPH0004 or VPH0005 within the last 12 months of the last day of the monitored calendar period

See the related "Denominator Inclusions/Exclusions" field.

Numerator Description

Outpatients with chronic obstructive pulmonary disease (COPD) and a Medical Research Council (MRC) level of 2 or more who receive long-acting bronchodilator inhaled therapy – either long-acting muscarinic antagonist (LAMA) or long-acting beta2 agonist (LABA) (see the related "Numerator Inclusions/Exclusions" field)

Evidence Supporting the Measure

Type of Evidence Supporting the Criterion of Quality for the Measure

A formal consensus procedure, involving experts in relevant clinical, methodological, public health and organizational sciences

Additional Information Supporting Need for the Measure

Unspecified

Extent of Measure Testing

Unspecified

State of Use of the Measure

State of Use

Current routine use

Current Use

not defined yet

Application of the Measure in its Current Use

Measurement Setting

Hospital Outpatient

Professionals Involved in Delivery of Health Services

not defined yet

Least Aggregated Level of Services Delivery Addressed

Single Health Care Delivery or Public Health Organizations

Statement of Acceptable Minimum Sample Size

Unspecified

Target Population Age

Age greater than or equal to 30 years

Target Population Gender

Either male or female

National Strategy for Quality Improvement in Health Care

National Quality Strategy Aim

Better Care

National Quality Strategy Priority

Institute of Medicine (IOM) National Health Care Quality Report Categories

IOM Care Need

Living with Illness

IOM Domain

Effectiveness

Data Collection for the Measure

Case Finding Period

The monitored calendar year

Denominator Sampling Frame

Patients associated with provider

Denominator (Index) Event or Characteristic

Clinical Condition

Diagnostic Evaluation

Encounter

Patient/Individual (Consumer) Characteristic

Denominator Time Window

not defined yet

Denominator Inclusions/Exclusions

Inclusions

Patients age 30 years and older who were seen at hospital outpatient clinics with the following primary diagnoses for chronic obstructive pulmonary disease (COPD) according to the Danish version of the International Classification of Diseases, Tenth Revision (ICD-10):

J44.X

OR

J96.X in combination with J44.X as a secondary diagnosis

AND

At least one procedure code ZZ0150CD and an attached value code VPH0002, VPH0003, VPH0004 or VPH0005 within the last 12 months of the last day of the monitored calendar period

Note: Based on patients who (according to their civil registration number) can be identified in the Danish National Patient Registry (DNPR) as having a "hospital outpatient course" with COPD, i.e., a start date, one or more outpatient visit dates in the monitored calendar year, and eventually an end date in the DNPR.

Exclusions

Outpatient courses consisting of a single contact only ("one-day courses") are excluded.

Exclusions/Exceptions

not defined yet

Numerator Inclusions/Exclusions

Inclusions

Outpatients with chronic obstructive pulmonary disease (COPD) and a Medical Research Council (MRC) level of 2 or more who receive long-acting bronchodilator inhaled therapy – either long-acting muscarinic antagonist (LAMA) or long-acting beta2 agonist (LABA)*

*Persons who have been assigned at least one Anatomical Therapeutic Chemical (ATC) code for one or more of the following LABAs in the Danish Prescription Database within the last 12 months of the last day of the monitored calendar period: salmeterol (R03AC12), formoterol (R03AC13), indacaterol (R03AC18), salmeterol + fluticasone (R03AK06), formoterol + budesonide or beclomethasone (R03AK07) or at least one of the following LAMAs: tiotropium (R03BB04).

Exclusions

Unspecified

Numerator Search Strategy

Fixed time period or point in time

Data Source

Administrative clinical data

Paper medical record

Registry data

Type of Health State

Does not apply to this measure

Instruments Used and/or Associated with the Measure

Medical Research Council (MRC) Dyspnea Scale

Computation of the Measure

Measure Specifies Disaggregation

Measure Specific Registry/Registry

Does not apply to this measure

Scoring

Rate/Proportion

Interpretation of Score

Desired value is a higher score

Allowance for Patient or Population Factors

not defined yet

Standard of Comparison

not defined yet

Identifying Information

Original Title

Proportion of outpatients with an MRC-level of 2 or more who receive long-acting bronchodilator inhaled therapy – either long-acting muscarinic antagonist (LAMA) or long-acting beta2 agonist (LABA).

Measure Collection Name

The Danish Clinical Registers

Measure Set Name

Clinical Indicators for the Danish registry for Chronic Obstructive Pulmonary Disease (DrCOPD)

Submitter

The Danish registry for Chronic Obstructive Pulmonary Disease - National Government Agency [Non-U.S.]

Developer

Competence Centre for Clinical Quality and Health Informatics West - International Agency

The Danish registry for Chronic Obstructive Pulmonary Disease - National Government Agency [Non-U.S.]

Funding Source(s)

Danish Regions

Composition of the Group that Developed the Measure

The steering committee for The Danish registry for Chronic Pulmonary Obstructive Disease (DrCOPD)

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Financial Disclosures/Other Potential Conflicts of Interest

Unspecified

Adaptation

This measure is not adapted from another source.

Date of Most Current Version in NQMC

2013 Jan

Measure Maintenance

Every year in connection with the national clinical audit, there may be isolated updates of the indicator sets (e.g., addition of new indicators or new supplementary variables). Every second or third year, there will be a more formalised review with a proper revision of the indicator set, which will also include a complete update of both documentalist report and other documents related to the indicator set.

Date of Next Anticipated Revision

2016 Sep

Measure Status

This is the current release of the measure.

The measure developer reaffirmed the currency of this measure in October 2015.

Measure Availability

Source not available electronically.

For more information, visit [The Competence Centre for Clinical Quality and Health Informatics West Web site](#) (in Danish).

Companion Documents

The following is available:

Manual for the development of disease-specific quality indicators, standards and prognostic factors under the Danish National Indicator Project. Version 3.0. Aarhus N: The Danish National Indicator Project (DNIP); 2009 Jun. 31 p.

NQMC Status

This NQMC summary was completed by ECRI Institute on August 5, 2013. The information was verified by the measure developer on October 1, 2013.

The information was reaffirmed by the measure developer on October 30, 2015.

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No copyright restrictions apply.

Production

Source(s)

Indicators in the Danish registry for chronic obstructive pulmonary disease (DrCOPD). Aarhus (DK): Competence Centre for Clinical Quality and Health Informatics West; 2013 Jan 2. 7 p.

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